

ABSTRACT

In accordance with the invention, an assembly for stacking optical fibers in a two dimensional array comprises a plurality of ferrule plates, each plate having a pair of sides. One side of the plate has a plurality of grooves for receiving the fibers, and the other side is flat. Fibers having terminated ends are disposed in the grooves with their ends aligned in a substantially planar two-dimensional array. The plates are aligned and stacked to hold the individual fibers between a groove on one plate and the flat surface of an adjacent plate. Alignment features, such as holes and pins, can facilitate plate alignment. The plates and fibers are secured in aligned position as by epoxy bonding. The assembly disclosed here is especially advantageous for mass termination of fiber optic cables and for interfacing to active devices.